

IN THE CLAIMS

Please amend the claims as follows as follows:

1 1. (original) A peritoneal dialysis system for a patient, comprising:
2 a peritoneal dialyzer that utilizes dialysate to remove impurities from the blood of
3 the patient; and
4 a plurality of sorbent devices for regenerating the dialysate, wherein the sorbent
5 devices are adapted to be worn on the body of a patient.

1 2. (original) The peritoneal dialysis system of claim 1, wherein the sorbent devices
2 are connected in series.

1 3. (original) The peritoneal dialysis system of claim 1, wherein each of the sorbent
2 devices has a flexible casing adapted to conform to the body contour of the patient.

1 4. (original) The peritoneal dialysis system of claim 1, wherein the number of
2 sorbent devices may be varied to reflect different dialysis prescriptions.

1 5. (original) The peritoneal dialysis system of claim 1, further including a
2 regenerated dialysate inlet tube leading into the peritoneal dialyzer and a spent dialysate outlet
3 tube leading out of the peritoneal dialyzer.

1 6.. (original) The peritoneal dialysis system of claim 5, wherein the regenerated
2 dialysate inlet tube includes a side port for the infusion of additives.

1 7. (original) The peritoneal dialysis system of claim 6, wherein the additives are
2 pumped into the dialysate from a plurality of additive reservoirs.

1 8. (original) The peritoneal dialysis system of claim 6, wherein the rate of infusion
2 of each additive is controlled electronically.

1 9. (original) The peritoneal dialysis system of claim 6, wherein the additives are
2 chosen from the group consisting of: sodium citrate, calcium, potassium and sodium bicarbonate.

1 10. (original) The peritoneal dialysis system of claim 5, wherein the spent dialysate
2 tube leads into the plurality of sorbent devices and the regenerated dialysate tube leads out of the
3 plurality of sorbent devices.

1 11. (original) The peritoneal dialysis system of claim 1, wherein the sorbent devices
2 comprise replaceable cartridges.

1 12. (original) The peritoneal dialysis system of claim 11, wherein the replaceable
2 cartridges include: activated charcoal, urease, zirconium phosphate, hydrous zirconium oxide
3 and activated carbon.

1 *a*

13. (original) The peritoneal dialysis system of claim 1, wherein the sorbent devices

2 are connected in parallel.

1 14.-25. (canceled)